Hinkson Creek

Collaborative Adaptive Management

Potential Projects

October 23, 2017

1. Stream Stabilization Projects
    a. i.e. Seven Oaks, near Reese Lane low water crossing off Hinkson Creek Rd.
2. Roadside Vegetation Management for Salt
    a. Using distichlis spicata (inland salt grass) to occupy roadside to withdraw salt from soil. Burn or mow and remove salt laden grass. (May be other species to use, too.)
3. More macroinvertebrate study
    a. Mine existing studies
    b. Focus on specific bugs whose populations are thin.
4. Retrofit Ex. Detention Basins
    a. Oak Forest Trash retrofit
    b. Do cost benefit for retrofitting Oak Forest Dam to take longer ponding
    c. Lake Shire Estates near Mexico Gravel and Ballenger
5. Ultra-slow conveyance retrofit
    a. Replace failing metal pipes with much slower conveyance
    b. Will include installing good trash and sediment BMPs
6. Grade Control Program
    a. Install grade control on minor tributaries
    b. Focus on tribs that contribute to where Hinkson no scoring well
7. Riparian Restoration on Public Properties
    a. Waters Moss
    b. East side of 63 in sewer corridor
    c. East side of Maquire, south of Stadium
8. Proprietary BMP Retrofit Program
    a. Prioritize placement to focus on "hot spots" like downtown that don't get any other treatment
9. Enhanced Street Sweeping Study
10. Retrofit water quality basins near MoDOT right of way between 63 and Lemone Industrial Park
11. Retrofit water quality enhancements in Forum near Green Meadows and Woodrail
12. Retrofit water quality enhancements in Providenc from Nifong to the north.

Action items for Hinkson CAM process

1) Staff person from County (Lynne) and City (Kori?) to assist Science Team with administrative tasks
    a. Schedule meetings
    b. Create agenda (ensure continuity of items under discussion)
    c. Prepare minutes and publish on website
    d. Schedule reports from teams
2) Lynne work with Science Team to generate synthesis of work / knowledge about Hinkson Creek at this point (synthesis paper suggestion from Stakeholder Committee 9/27/17) – estimate that this would take 6-9 months to put together
3) Science Team re-do list of potential projects ignoring cost
    a. Need to generate more detailed description for RFP
    b. Need to generate ballpark ideas on cost
4) Implement Lynne's project on sediment in Hinkson Creek in November and December of 2017 – then work with Science Team to interpret results
5) Determine cost of continued macroinvertebrate monitoring, by either MDNR (with a contract specifying time limits on data analysis – Tim Rielly working on getting cost estimate) or an independent consultant
    a. Shouldn't MDNR continue to provide the monitoring as their contribution toward improving knowledge of Hinkson Creek?
    b. This is part of a larger thought process as to seeking clarification from agencies on their level of commitment to this process – i.e. are Science Team members "volunteers"
6) Offer incentives for stormwater retrofits
    a. Possibly apply for a Chapter 319 grant to fund this process
    b. If apply for 319, need 9-element plan that complies with new EPA requirements
7) Evaluate and possibly revise stormwater re-development criteria